

FIG. 1A

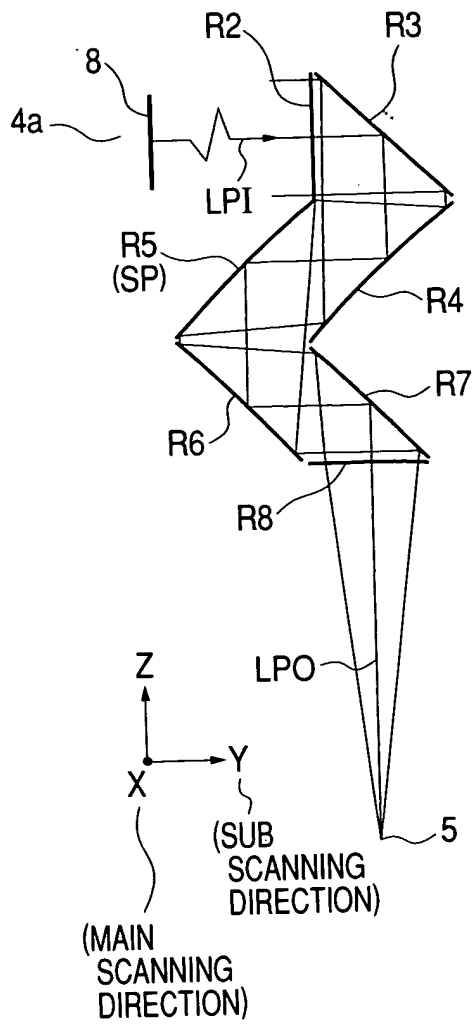


FIG. 1B

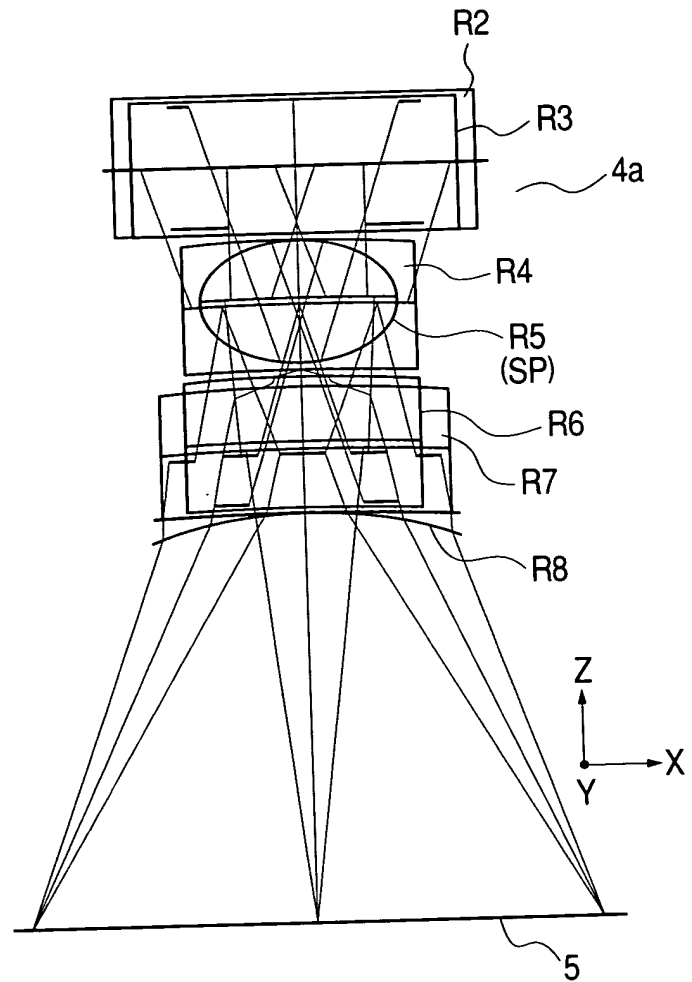


FIG. 1C

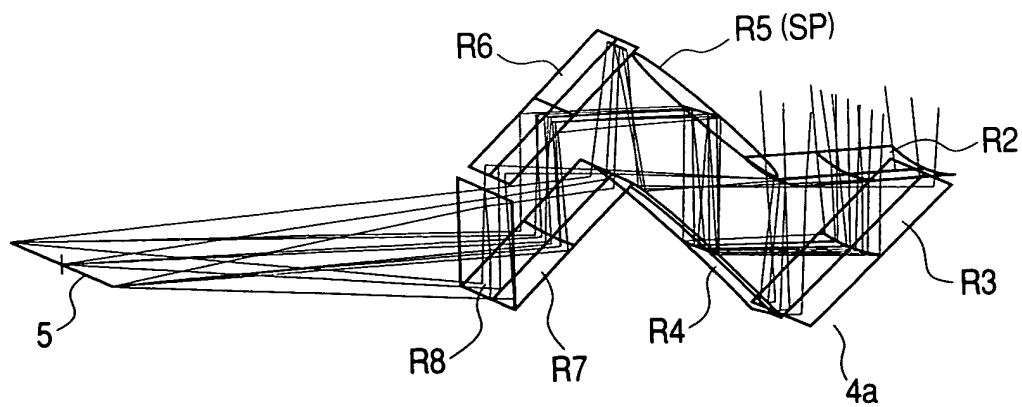


FIG. 2

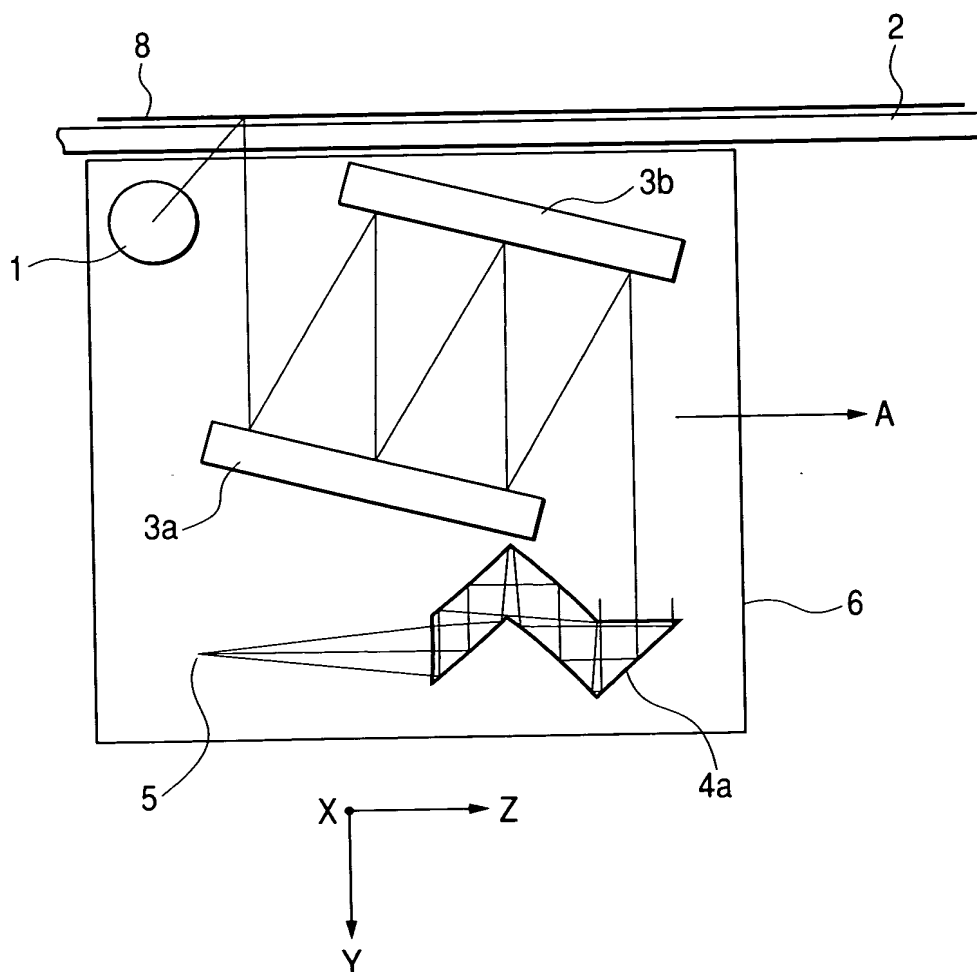


Figure 10 displays the variation of the normalized velocity perturbation (solid line) and the normalized density perturbation (dashed line) with the normalized vertical coordinate z for different values of the normalized horizontal coordinate X . The plots are arranged in a 5x2 grid, with rows corresponding to $X = 110, 82.5, 55, 27.5, 0$ and columns labeled 'Y-FAN' and 'X-FAN'. The vertical axis z ranges from -0.0250 to 0.0250. The horizontal axis is X . The plots show that the perturbations are largest at $X = 110$ and decrease as X approaches 0. The 'Y-FAN' column shows more pronounced oscillations than the 'X-FAN' column.

Legend:

- 656.3 NM
- 435.8 NM

----- 656.3 NM
 _____ 435.8 NM

FIG. 4

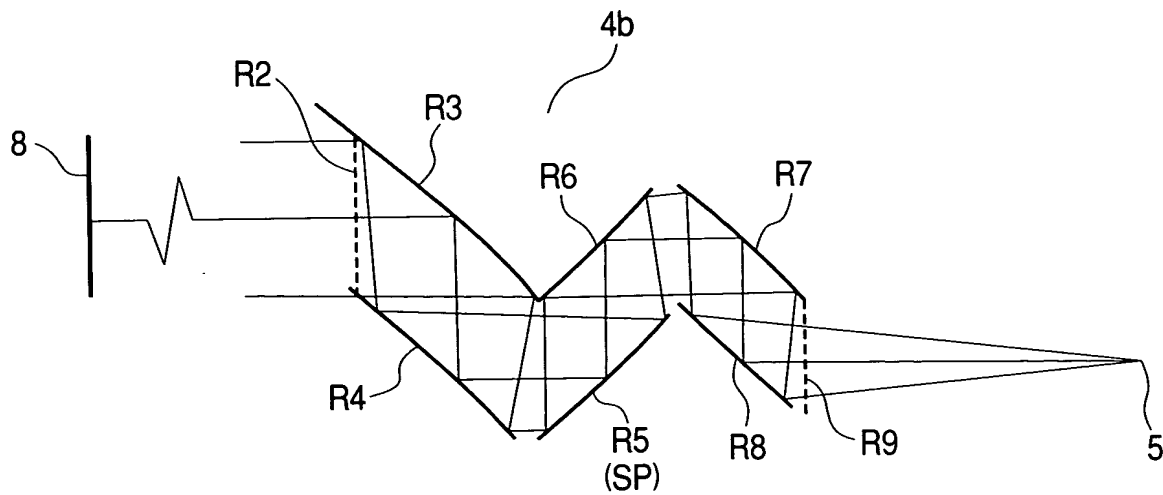


FIG. 5

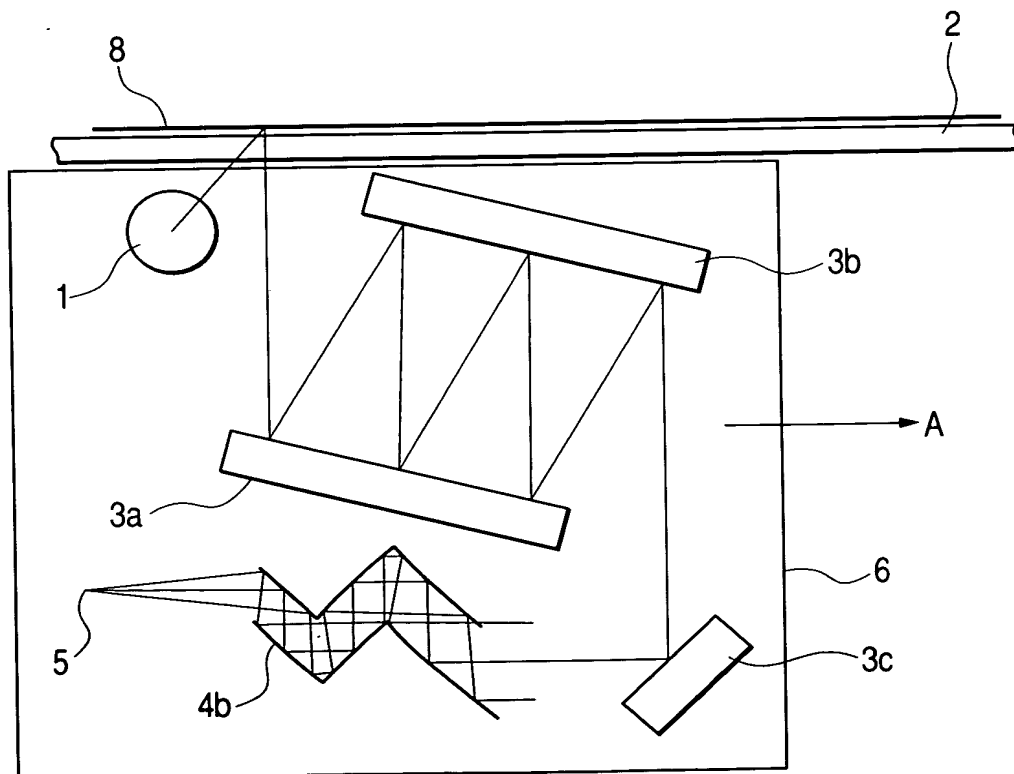


Figure 1 displays a series of plots showing the variation of Y-FAN and X-FAN with X for different values of X (110, 82.5, 55, 27.5, 0). The plots are arranged in a 5x2 grid. The vertical axis for all plots ranges from -0.0250 to 0.0250. The horizontal axis represents X. The plots show that as X decreases, the variation in Y-FAN and X-FAN increases. A scale bar at the bottom right indicates 546.0 NM.

546.0 NM

FIG. 7

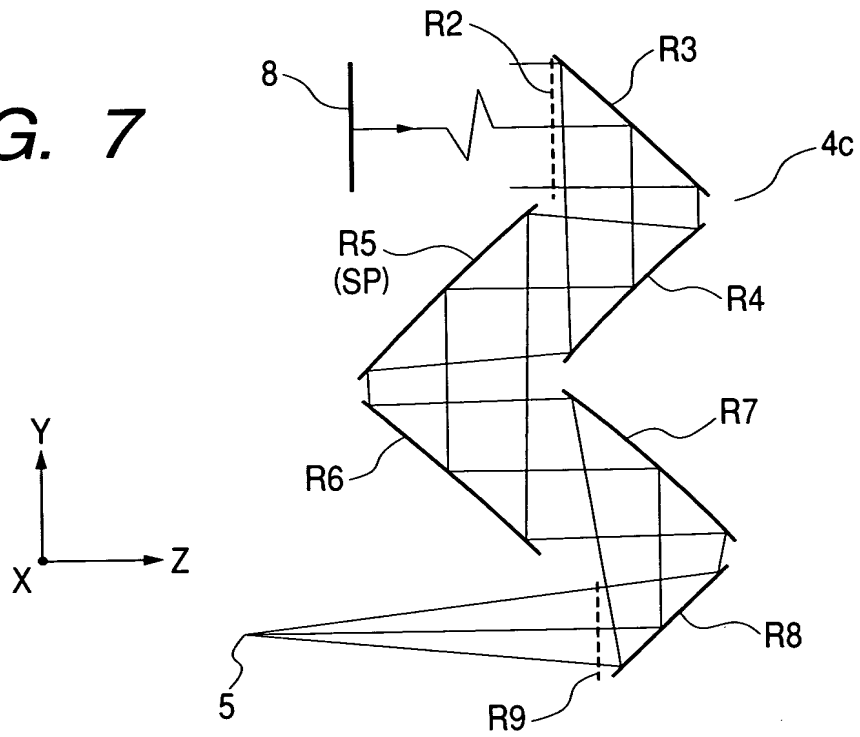
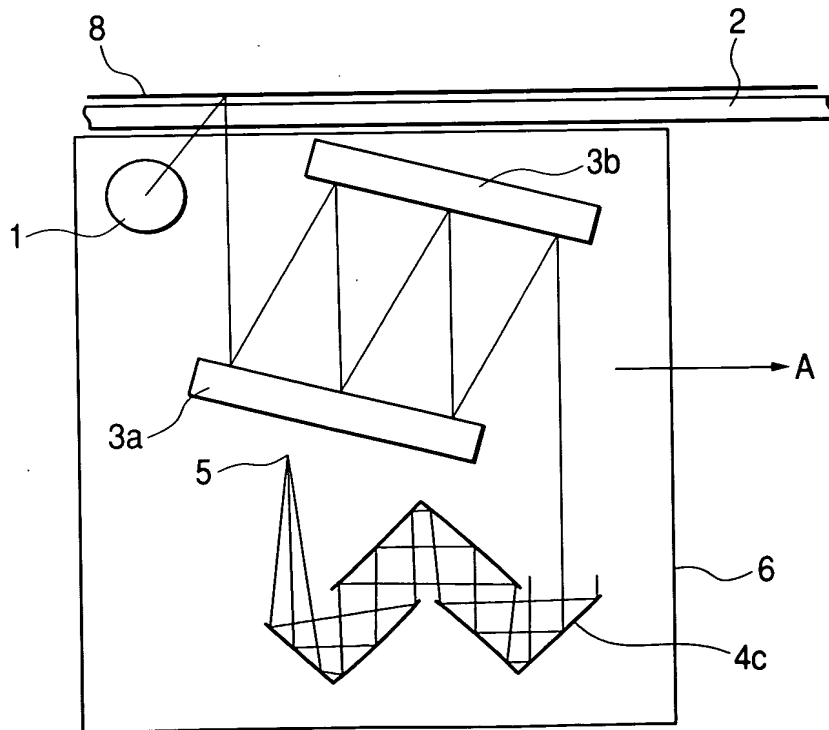


FIG. 8



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FIG. 9

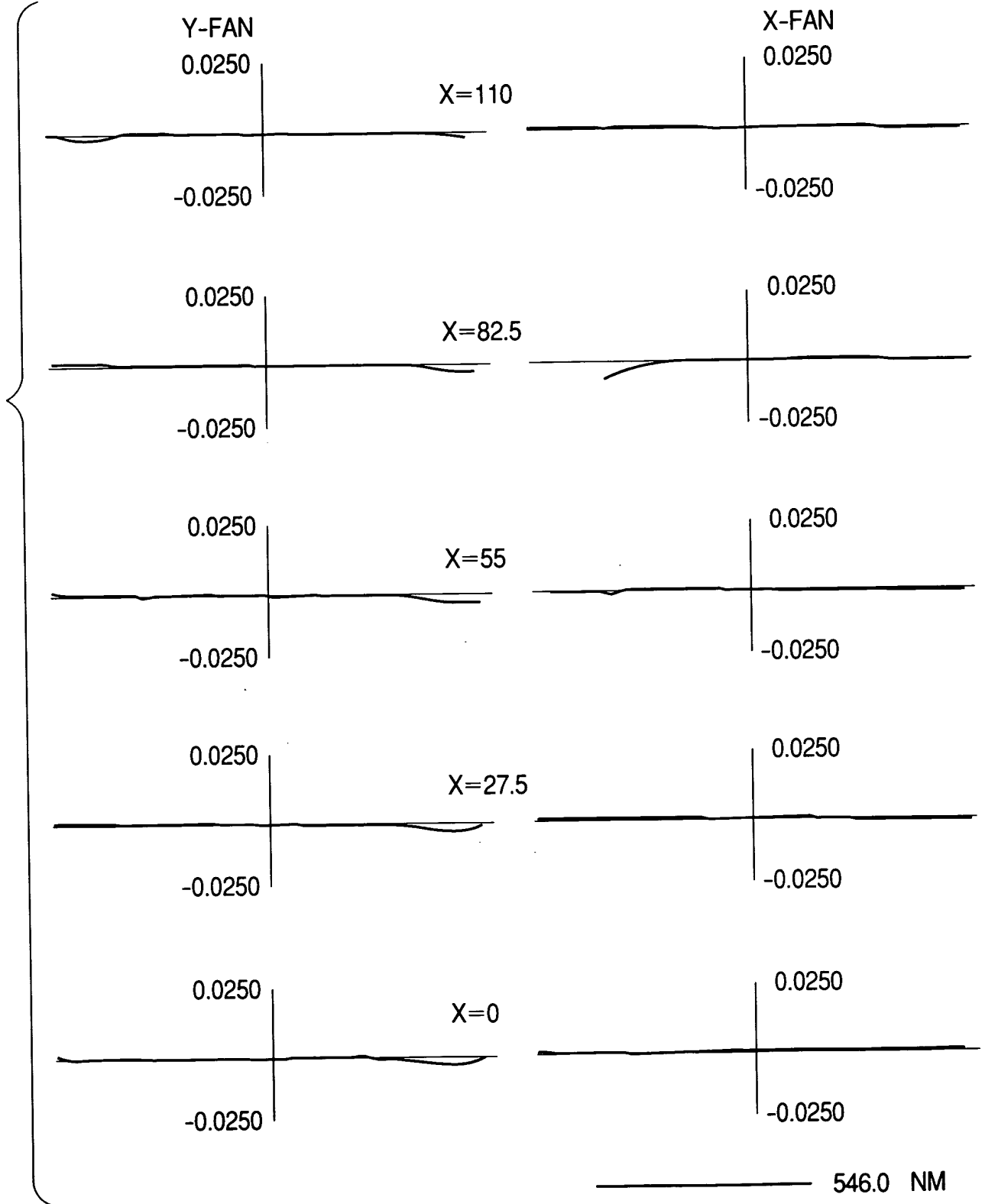


FIG. 10

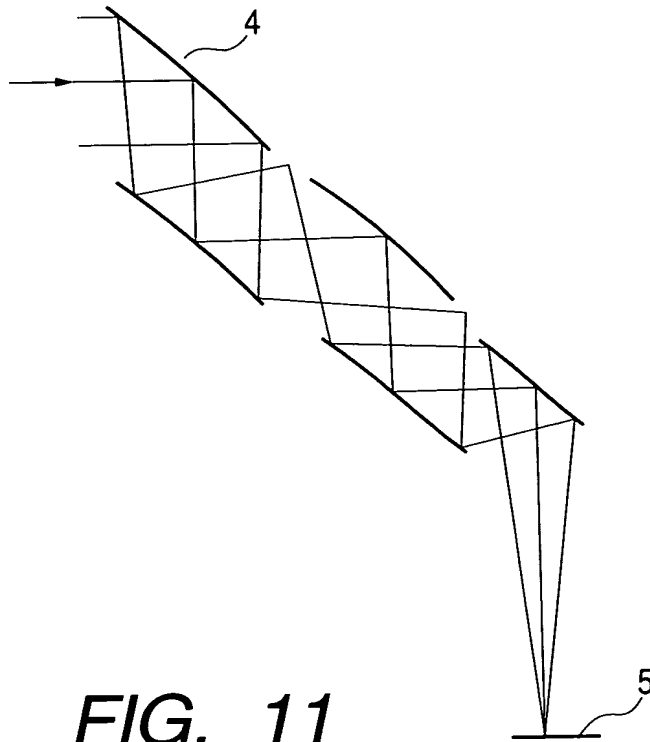


FIG. 11

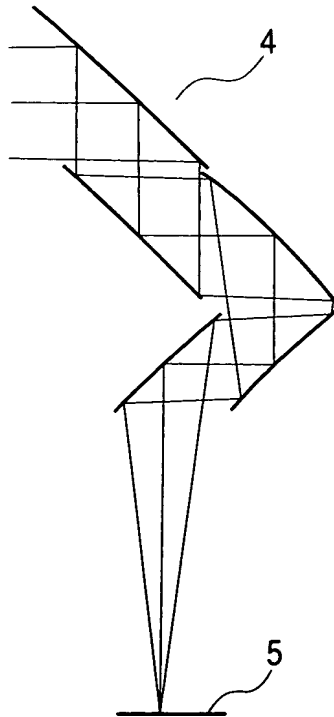


FIG. 12

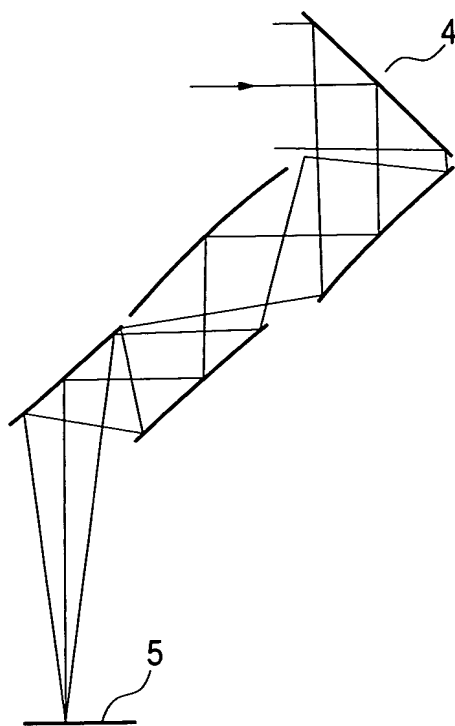


FIG. 13

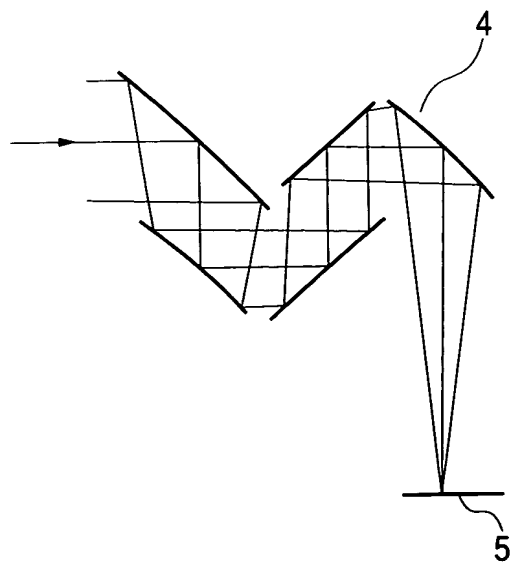


FIG. 14

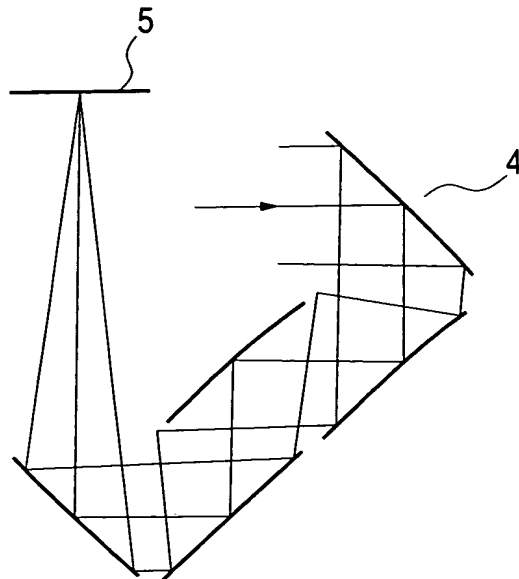


FIG. 15

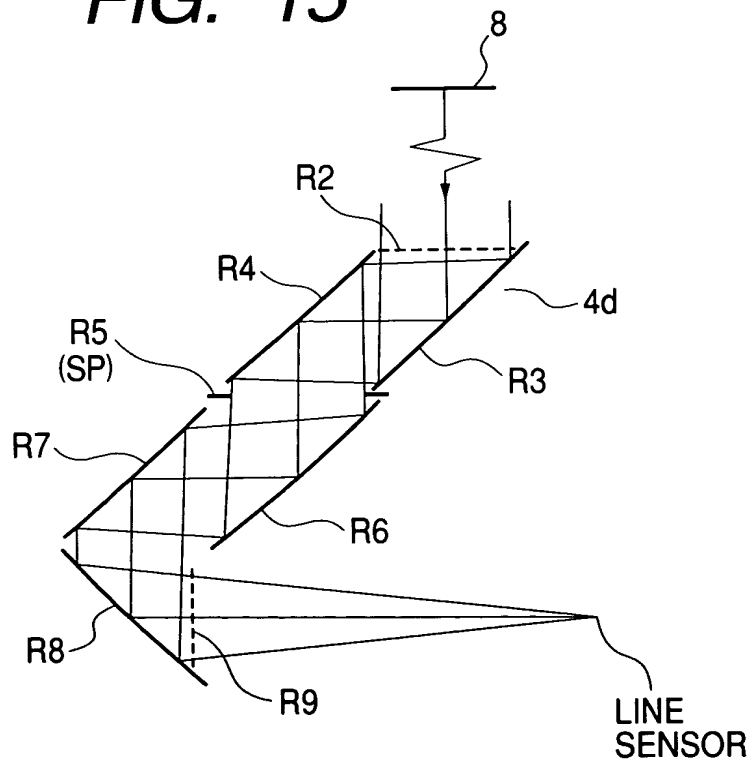


FIG. 16

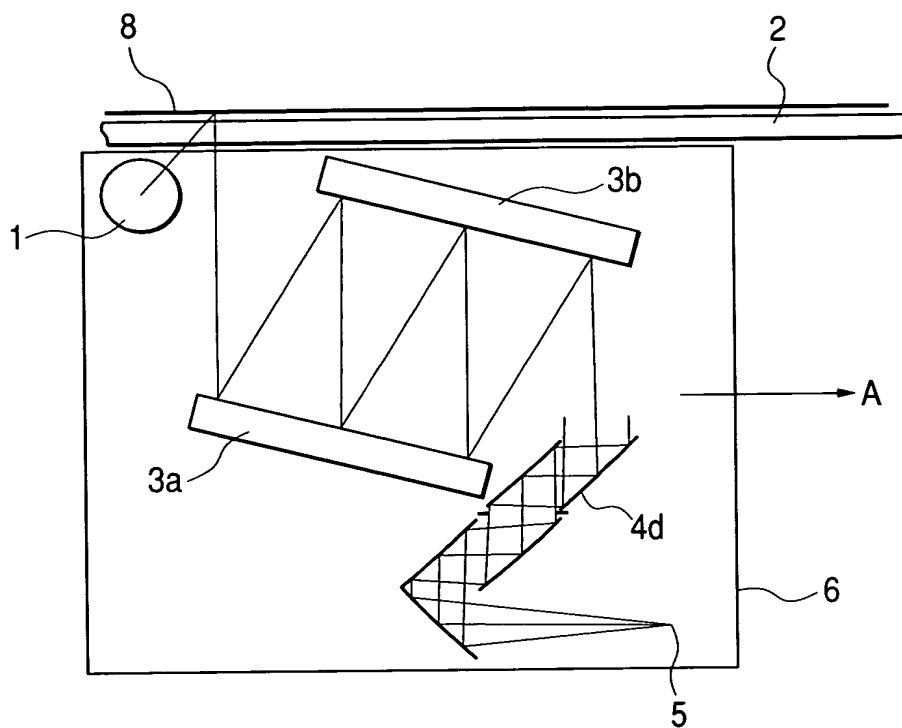


FIG. 17

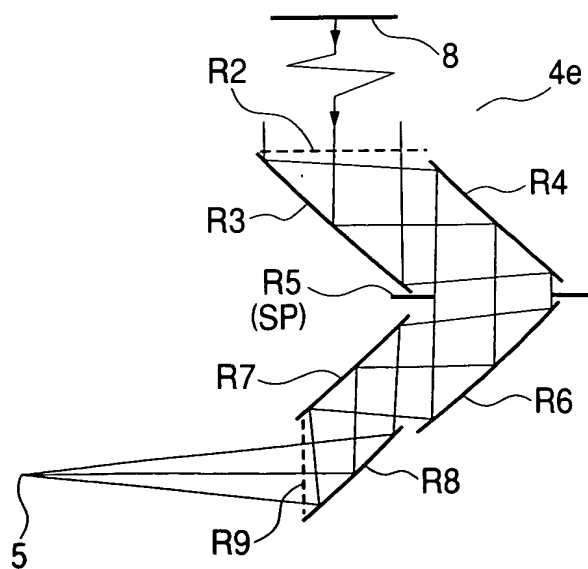


FIG. 18

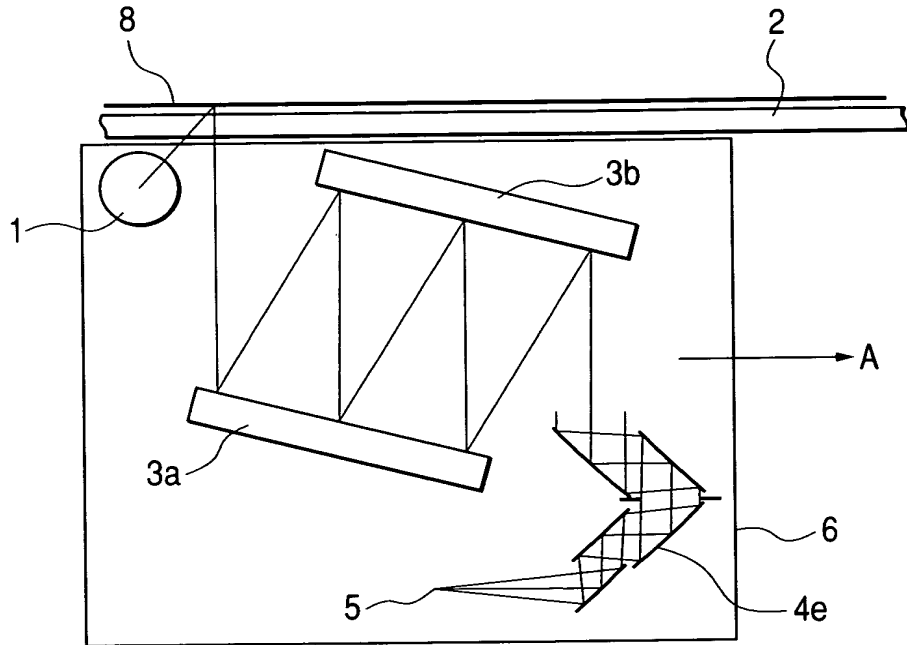


FIG. 19

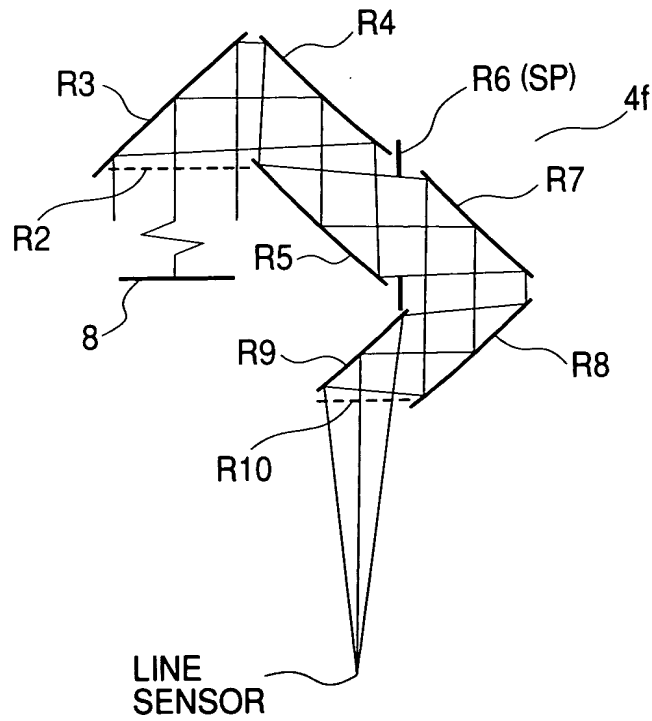


FIG. 20

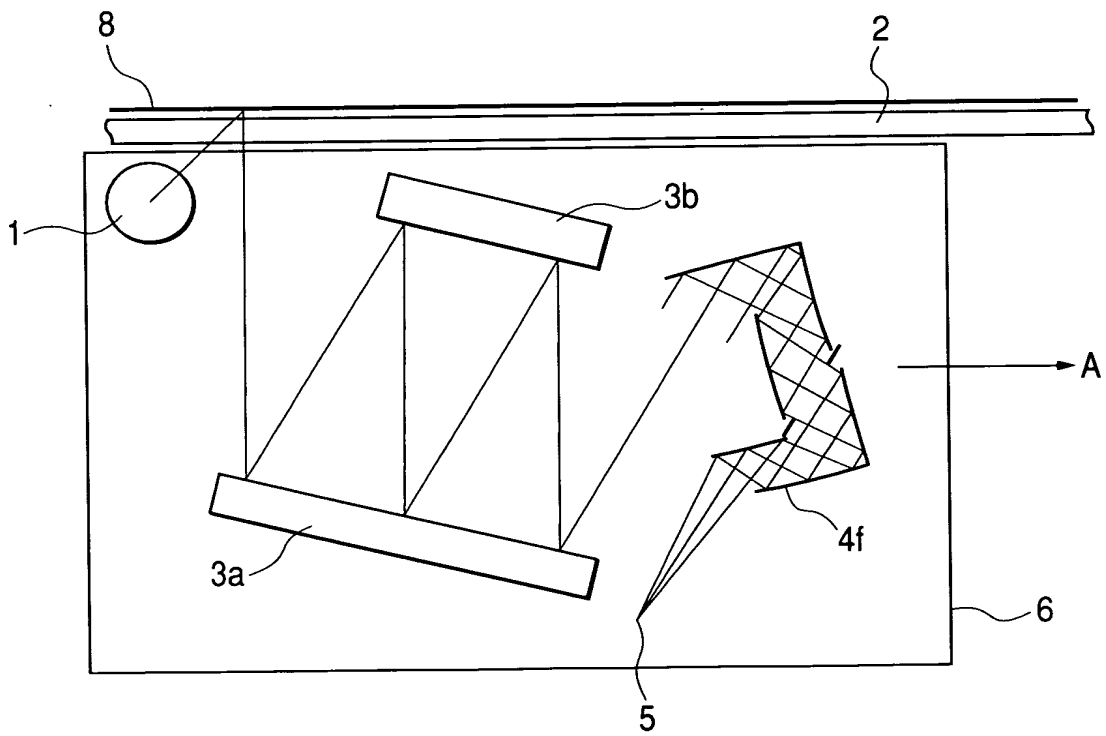


FIG. 21A

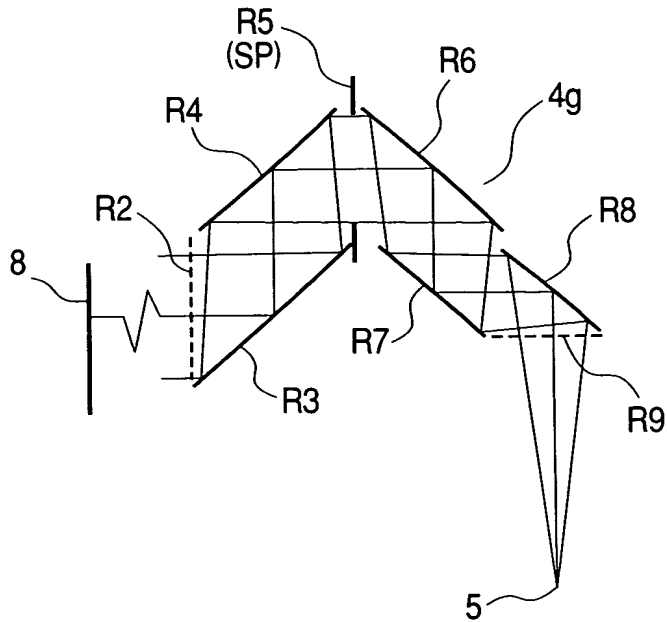


FIG. 21B

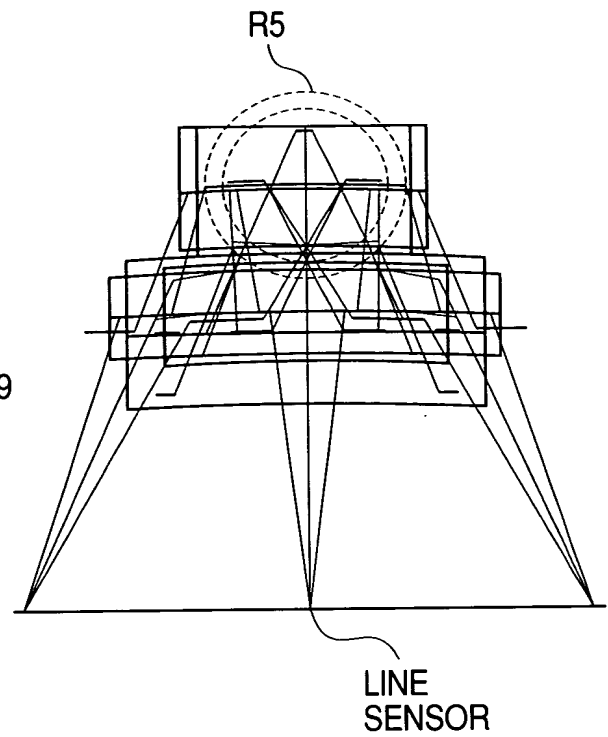


FIG. 21C

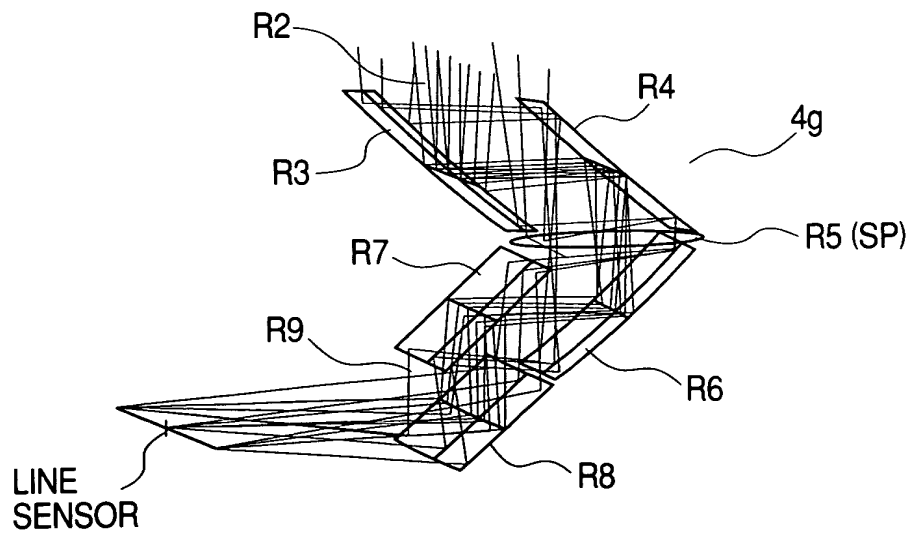


FIG. 22

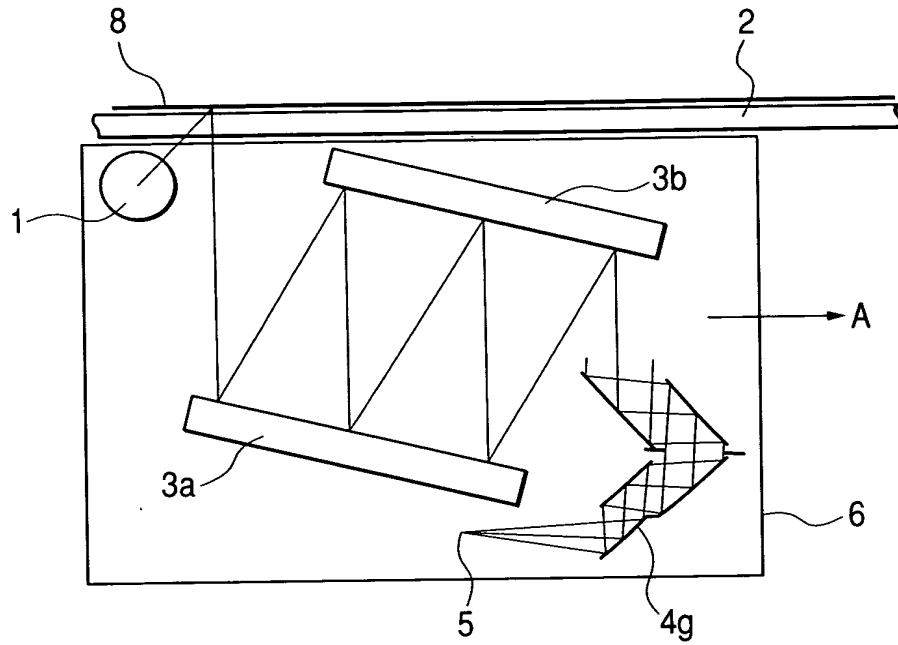


FIG. 23

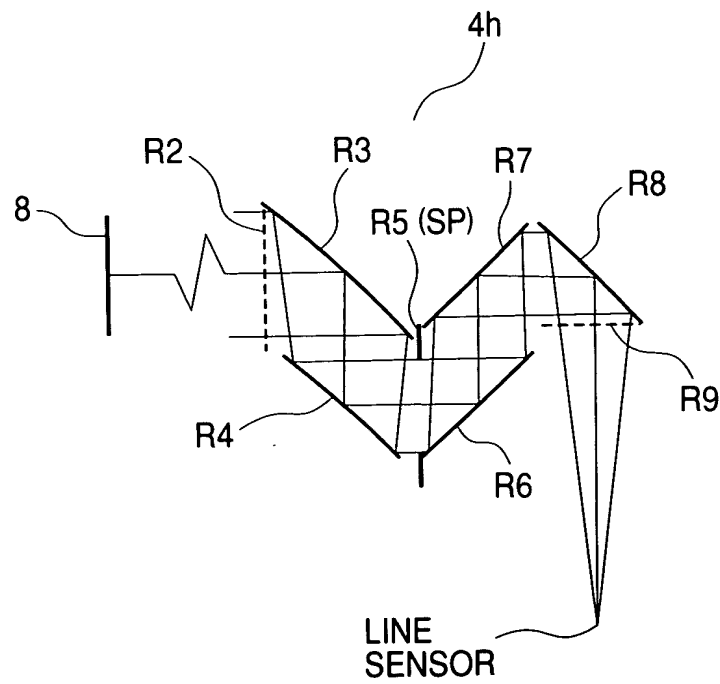


FIG. 24

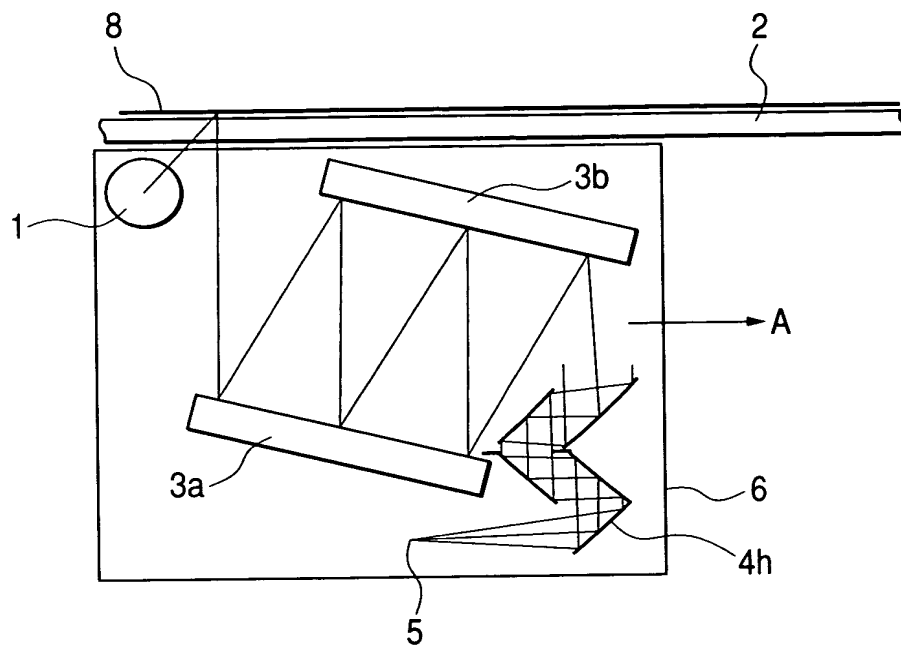


FIG. 25

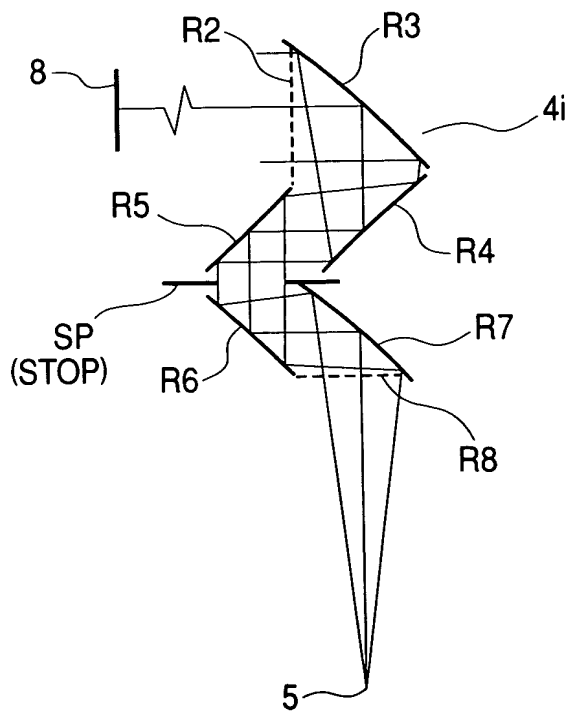


FIG. 26

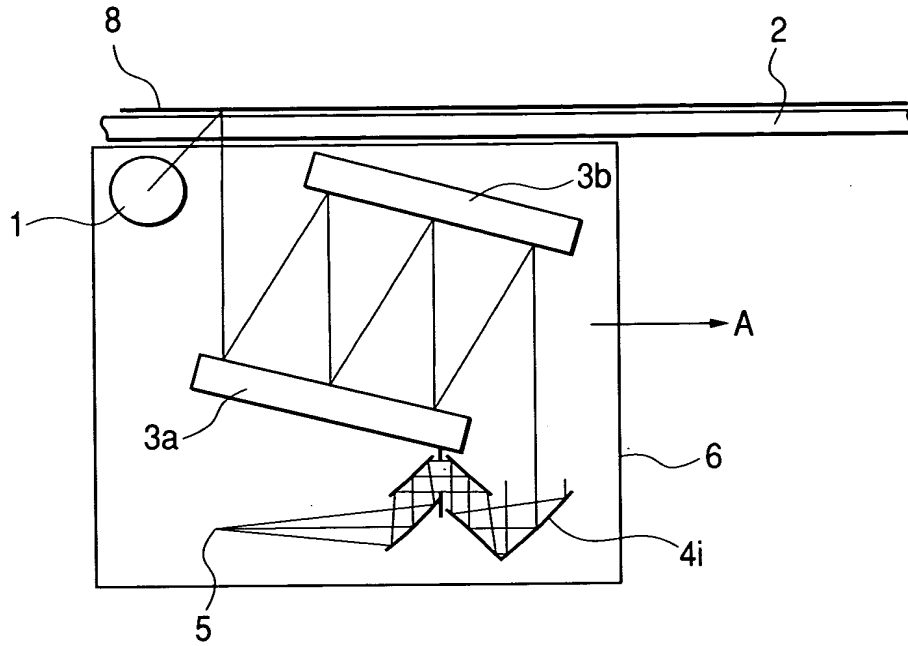


FIG. 27

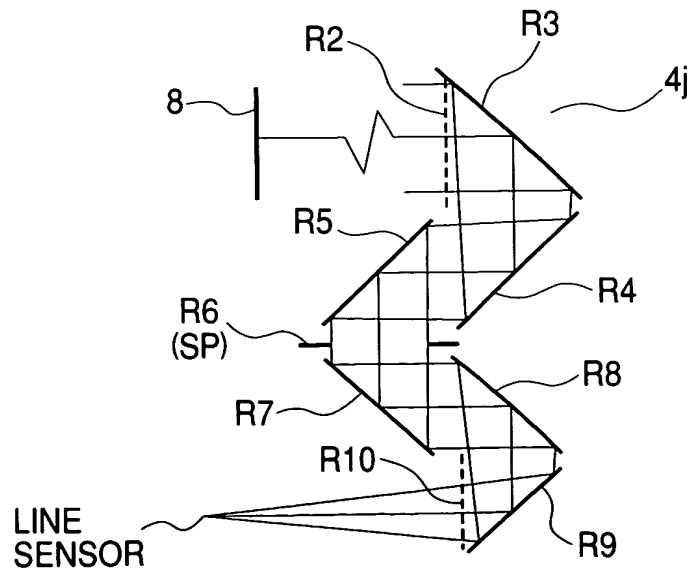


FIG. 28

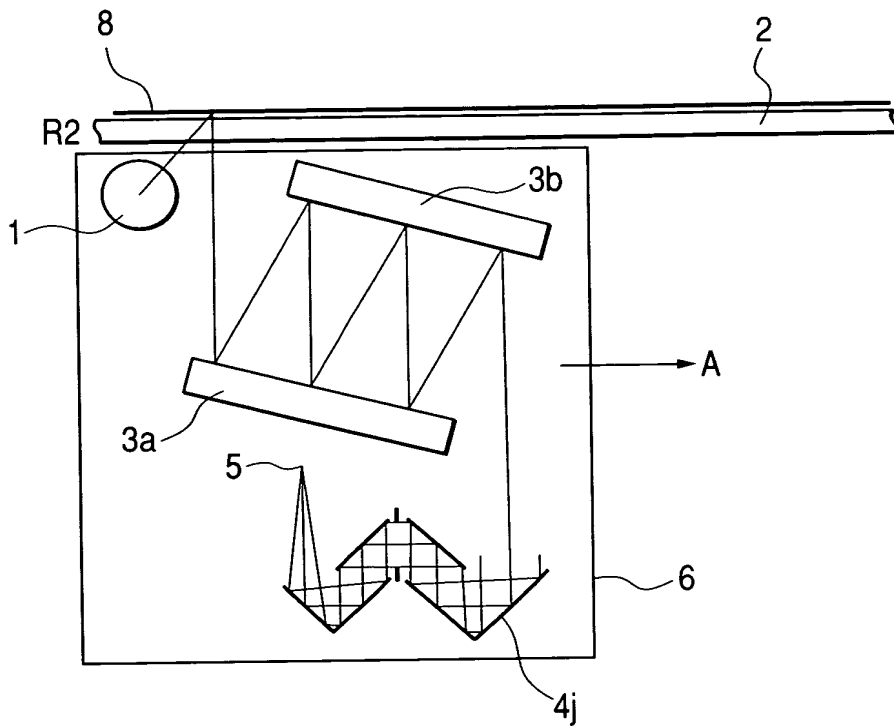


FIG. 29

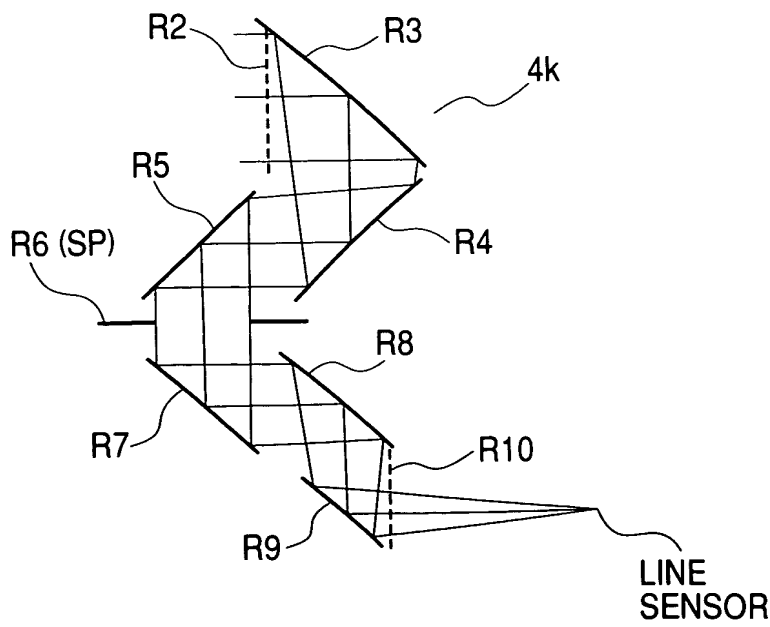


FIG. 30

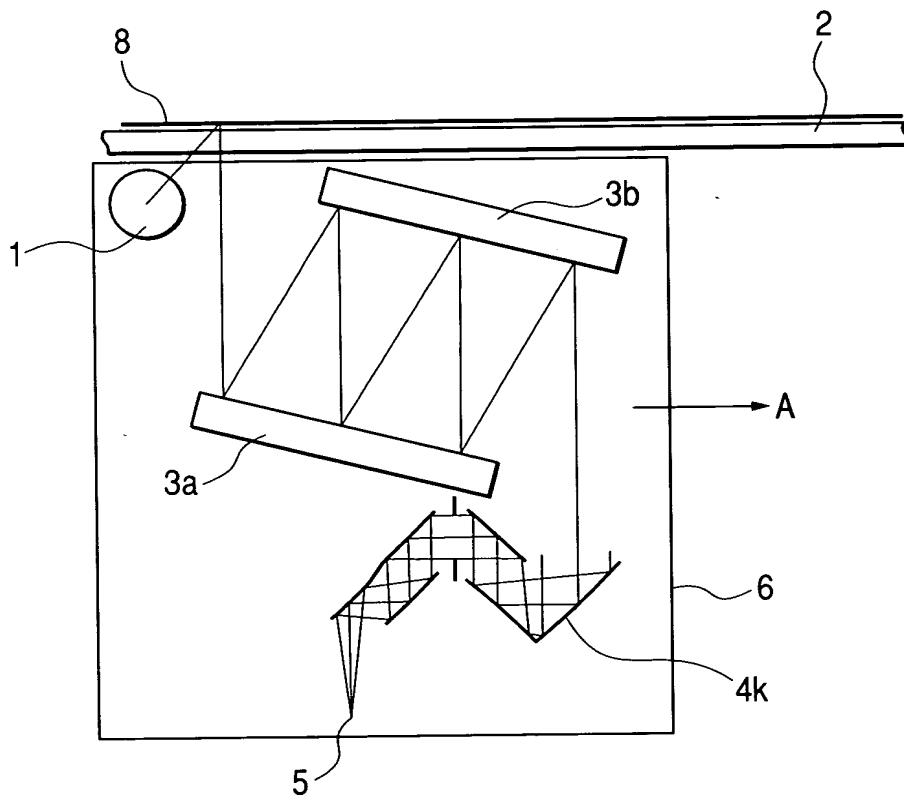


FIG. 31

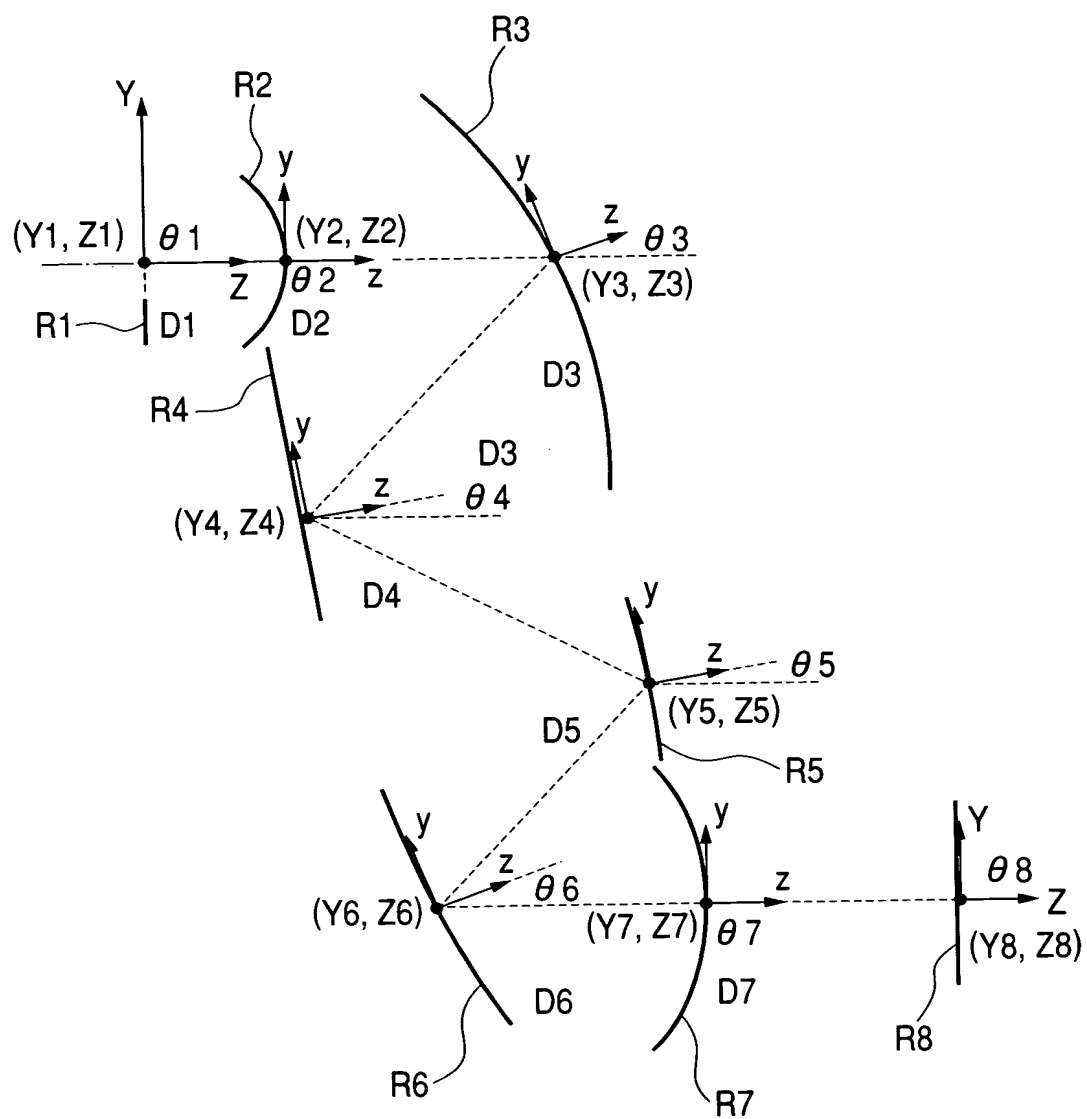


FIG. 32

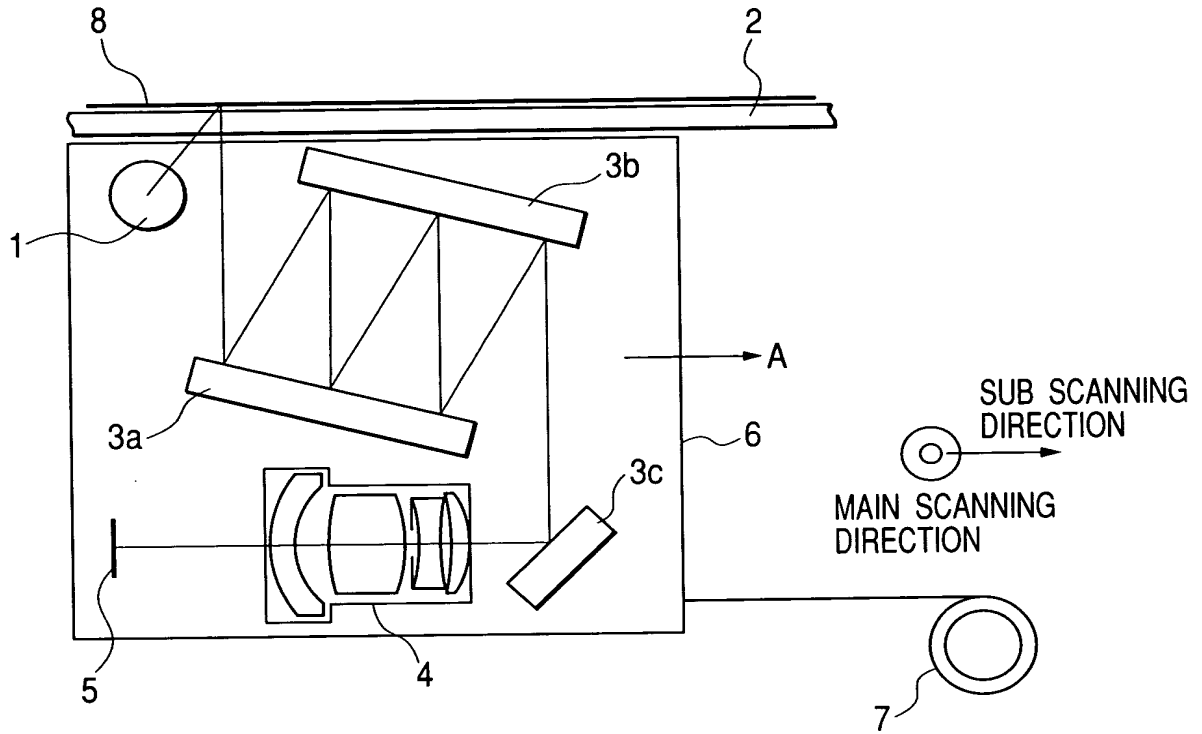


FIG. 33

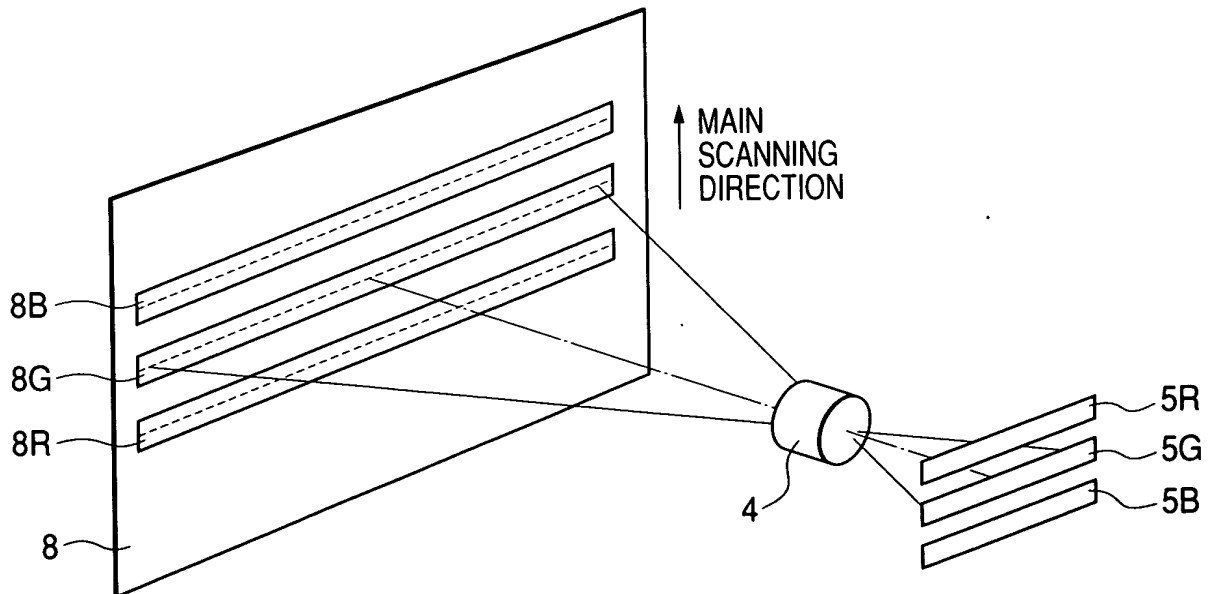


FIG. 34

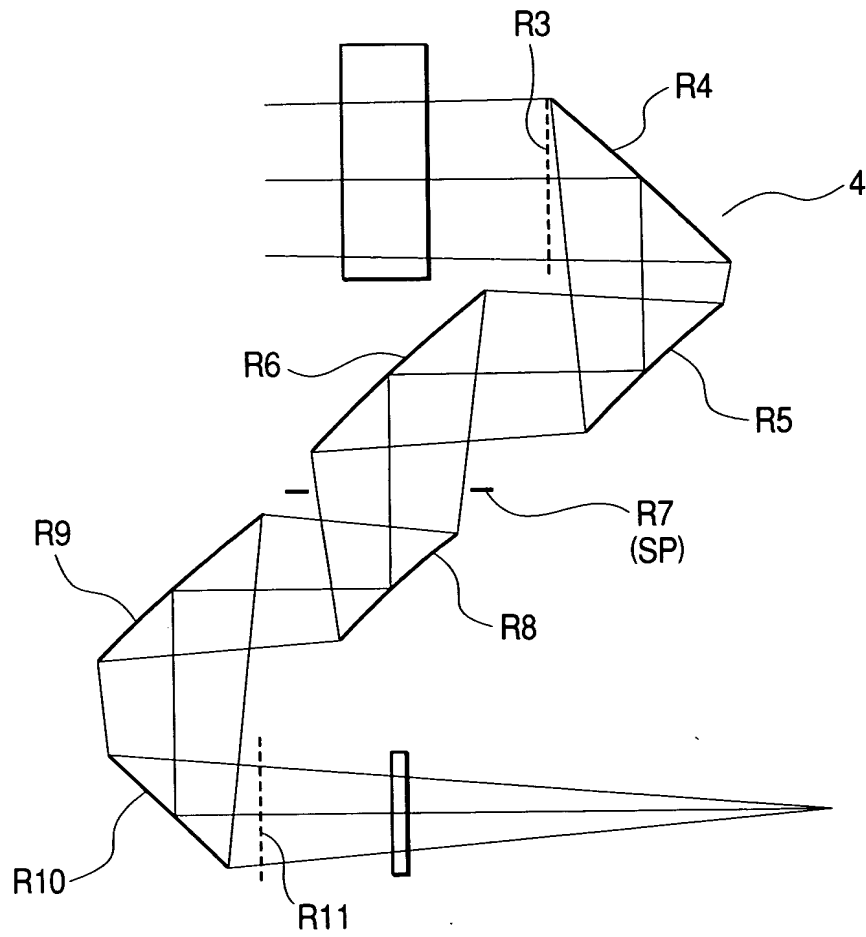


FIG. 35

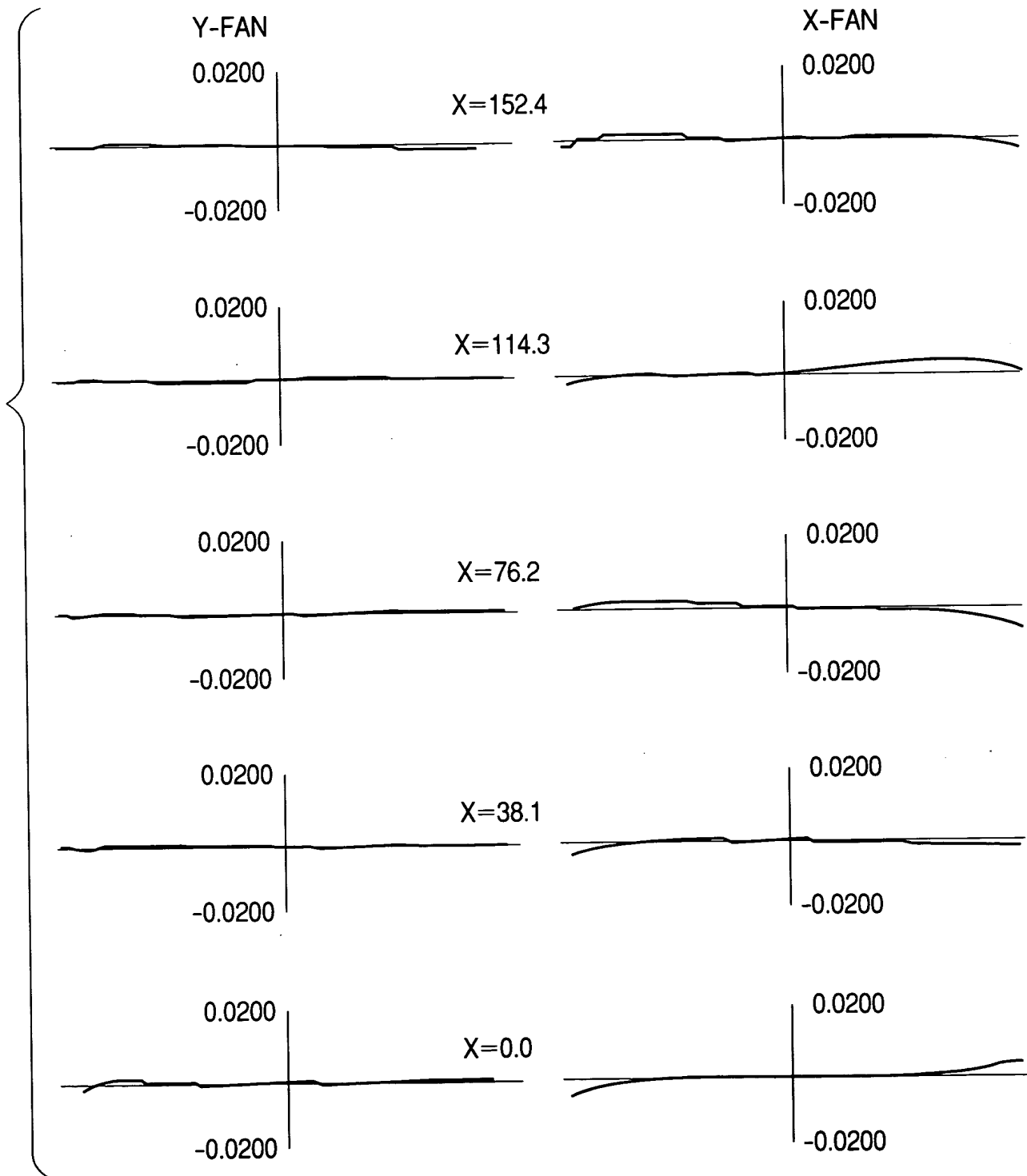


FIG. 36

